

Title (en)
ROBOT SYSTEM AND METHOD OF OPERATING A ROBOT SYSTEM

Title (de)
ROBOTERSYSTEM UND VERFAHREN ZUM BETRIEB EINES ROBOTERSYSTEMS

Title (fr)
SYSTÈME DE ROBOT ET PROCÉDÉ D'EXPLOITATION D'UN SYSTÈME DE ROBOT

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Abstract (en)
The present invention relates to a robot system for carrying out a plurality of operations during assembly or maintenance of an aircraft or spacecraft. The system comprises a first robot (2) comprising a base portion (5), a movable robot arm (6) having a first coupling portion (19), and a first control means (17) adapted to control the robot arm (6). The system also comprises a plurality of second robots (3) comprising movement means (20), a drive portion (21) operable to drive the movement means (20), a tool portion (7) comprising a tool (9) adapted to carry out a specific one of the operations, a second coupling portion (23) adapted to be selectively and releasably coupled with the first coupling portion (19) in a predetermined positional relationship, and a second control means (18) adapted to control the respective second robot (3). The first and second control means (17, 18) are adapted to control the drive portion (21) of one of the second robots (3) and the robot arm (6) to couple the first coupling portion (19) and the respective second coupling portion (23) in the predetermined positional relationship, subsequently the robot arm (6) to move the tool portion (7) together with the second robot (3) held by the robot arm (6) to a selected location at which the specific operation, for which the tool portion (7) of the respective second robot (3) is adapted, is to be carried out, and then the second robot (3) to carry out the specific operation at the selected location.

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